The Sagebrush Steppe Fire and Fire Surrogate Study



Evaluating the effects of fire and fire surrogate treatments in Sagebrush communities of the Great Basin



experimental design on 15 sites across the Great Basin. Each site represents a sagebrush/steppe stand at risk of converting to exotic, annual grassland, closed stands of Pinyon















The Study Sites

Is an independent, stand-alone experiment with full replication and control Is interdisciplinary, with analyses conducted on individual variables and on interaction among variables

Wildlife

ead: Steve Knick USGS-Boise

This study is one of a kind:

·All sites have the same study design

Database designed to facilitate meta-analysis at the network level . Network of scientists work together to design the study, collect data, and

The Sage FFS Network

An ecosystem perspective

Enhanced by the power of replication at a regional level

at the site level Higher Elevation Woodland Sites

Lower Elevation Sagebrush/ Cheatgrass Sites



For more information please contact Jim McIver at jmciver@fs.fed.us



How it works...

The Sage FFS study is...

A 5-year, regional study, funded by the Joint Fire Science Program (US Department of Interior and USDA Forest Service)

Economics Lead: Kim Rollins

Univ. of Nevada-Reno

Vegetation & Fuels

Lead: Steve Bunting

University of Idaho

Socio-Political Lead: Mark Brunson

Utah State University

Scientists and managers, representing federal, state, private, and educational

Integrated and Interdisciplinary

Examines how treatments affect whole ecological systems and how thes effects play out in economic and socio-political arenas

Built for Managers

Will help land managers understand the appropriate balance on the use of prescribed fire and "fire surrogates" such as herbicides and mechanical

The Sage FFS study will assess the economic socio-political and ecological consequences

of four fuel alternatives. ·Optional treatments are

available to managers. ·Experimental units are similar in size to typical management units. ·Experiment is replicated at the site location and regional .The information is kept in a

common database



Mechanical



Hydrology

_ead: Fred Pierson

ARS-Boise

Soils

Lead: Dale Johnson Univ. of Nevada-Reno

Herbicide





The problem...

· One of the most endangered biomes in the US · Around 1/3 has been lost & as much as 1/2 in the Great Basin · Both the decrease and increase in fire are attributed to some of the largest vegetation changes





Information will be provided in many ways...





- Website
- Workshops
- User's Guides
- Publications



